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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant:

Toland, et al.

Serial No.:

10/773,072

Filed:

4 February 2004

For:

Increased Ultra Wideband (UWB) User Capacity Transmitter utilizing Time and Frequency Reuse

Approaches

Art Unit:

unknown

Examiner:

unknown

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed foreign patent document and other publication is enclosed. No U.S. Patents nor any published U.S. Patent Applications are enclosed.

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

- 2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):
  - (a) \_\_\_\_\_Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
  - (b) \_\_\_\_\_Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".
  - 3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):
    - (a) \_\_\_\_\_Within 3 months of the filing date or date of entry into the National Stage.
    - (b) X Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 20-0090 for consideration of this Statement.

	(c)	After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.					
		(1)	The required certification is given below, or				
		(2)	Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or				
		(3)	Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 20-0090.				
(	(d)	After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.					
		(1)	Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or				
		(2)	Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 20-0090.				
4.	Certificat	ification (if applicable)					
	(a)	The undersigned communication f the filing of this	hereby certifies that each item of information contained in this Statement was cited in a from a foreign patent office in a counterpart foreign application not more than 3 months prior to Statement.				
(b)The undersigned hereby certifies that no item of information contained in this Statement was ci communication from a foreign patent office in a counterpart foreign application or, to the under knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56 than 3 months prior to the filing of this Statement.							
5.	The Com 20-0090.	missioner is hereb	y authorized to charge any additional fees or credit any overpayment to Deposit Account No.				
			Respectfully Submitted,				
			TAROLLI SUNDHEIM COVELL & TUMMINO L.L.P.				

By: Christopher P. Harris
Peo No. 43,660

CUSTOMER NUMBER: 26294

TAROLLI, SUNDHEIM, COVELL & TUMMINO LLP 526 Superior Avenue, Suite 1111 Cleveland, Ohio 44114-1400 (216) 621.2234

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Application
Filing Date
First Name
Art Unit

Sheet

Complete if Known

Application Number 10/773,072

Filing Date 4 February 2004

First Named Inventor Toland

Art Unit Unknown

Examiner Name Unknown

Attorney Docket Number NG(ST)7618

			U.S. PATENT DO	CUMENTS	
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name Of Patentee Or Applicant Of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevan Figures Appear
Initials	No.1	Number-Kind Code 2 (If Known)			
		US-5,907,816	05-25-1999	Newman, et al.	*abstract* *figure 1* *col. 1, line 14-32*
		US-2003/0090435 A1	05-15-2003	Santhoff, et al.	*abstract* *figs. 3-6* *para. 0025, 0027, 0029, 0038*
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FOREIGN PATENT DOCUMENTS

<b>5</b>	Cita	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Examiner Initials	Cite No. <sup>1</sup>	Country Code-Number-Kind Code (If Known)				
		WO 03/044968	05-30-2003	Pulse-Link, Inc.	*abstract*     *figs. 3-6*     *p. 5, line 17-p. 8, line 19*	
						<del> </del>
EXAMINE! SIGNATUR		<u>, l                                     </u>	<u> </u>	DATE CONSIDERED		·

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Substitute fo	Substitute for form 1449/PTO			Application Number	10/773,072
INFORMATION DISCLOSURE				Filing Date	4 February 2004
	TATEMENT E			First Named Inventor	Toland
3				Art Unit	Unknown
	(Use as many she	ets as necessary,	,	Examiner Name	Unknown
Sheet	2	of	2	Attorney Docket Number	NG(ST)7618

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>		
		International Search Report for corresponding PCT/US2005/000743 filed 01-11-2005; search completed 05-19-2005 by F. Bauer of the EPO			
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Examiner	Date
Signature	Considered

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